

Concept Development Practice Page 7 2 Answers

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Ball bumps head Bug hits windshield Ball hits bat Nose touches hand Flower pulls on hand Thing A acts on Thing B Thing B reacts on Thing A Balloon surface pushes

Concept-Development 8-1 Practice Page

Concept-Development 9-3 Practice Page $t = 0 \text{ s}$ $v = \text{momentum} = t = 1 \text{ s}$ $v = \text{momentum} = t = 2 \text{ s}$ $v = \text{momentum} = t = 3 \text{ s}$ $v = \text{momentum} = t = 5 \text{ s}$ $v = \text{momentum} =$ Compact (same force but less mass) Sedan (slower) Compact Sedan; same force applied over a longer time produces more impulse.

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7. The bird at the right watches the waves. If the portion of a wave between two crests passes the

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pole each second, what is the speed of the wave? What is its period? 8. If the distance between crests in the above question was 1.5 meters, and two crests pass the pole each second, what would be the speed of the wave? What would be its period? 9.

Concept-Development 9-1 Practice Page

7. If the force of sliding friction is 250 N, what force is necessary to keep the crate sliding at constant velocity? 8. If the mass of the crate is 50 kg and sliding friction is 250 N, what is the acceleration of the crate when the pulling force is 250 N? 300 N? 500 N? Concept-Development 6-1 Practice Page

Concept-Development 7-1 Practice Page - MYP PHYSICS

Concept-Development 8-1 Practice Page Momentum 1. A moving car has momentum. If it moves twice as fast, its momentum is as much. 2. Two cars, one twice as heavy as the other, move down a hill at the same speed. Compared to the lighter car, the momentum of the heavier car is as much. 3. The recoil momentum of a cannon that kicks is

Concept-Development 9-3 Practice Page

Concept-Development 11-2 Practice Page. You topple when your CG extends beyond your feet. (One's buttocks can extend backward so the CG is above the feet.) (The CG is beyond the support base, so the person will topple backward. Demonstrate this in class!) CONCEPTUAL PHYSICS

Concept-Development 34-1 Practice Page

Concept-Development Practice Page Non-Accelerated Motion I. The sketch shows a ball rolling at constant velocity along a level floor. The ball rolls from the first position shown to the second in 1 second. The two positions are 1 meter apart. Sketch the ball at successive 1-second intervals all the way to the wall (neglect resistance). a.

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Name _____ Class _____ Date _____ Concept-Development Practice Page 9-2 Conservation of Energy 1. Fill in the blanks for the six systems shown. 30 J 30 J 20 J 30 J 4×10^6 J

Concept-Development 2-1 Practice Page

7. The KE and PE of a block freely sliding down a ramp are shown in only one place in the sketch. Fill in the missing values. 8. A big metal bead slides due to gravity along an upright friction-free wire. It starts from rest at the top of the wire as shown in the sketch. How fast is it traveling as it passes Point B? Point D? Point E?

Concept-Development 7-2 Practice Page

Concept-Development 7-1 Practice Page The horizontal component of velocity remains constant because no horizontal force acted. The vertical component of velocity changes because of acceleration due to gravity.

Conceptual Physics Conceptual Worksheets

Concept-Development Practice Page 1. The sketch shows a ball rolling at constant velocity along a level floor. The ball rolls from the first position shown to the second in 1 second. The two positions are 1 meter apart. Sketch the ball at successive 1-second intervals all the way to the wall (neglect resistance). a.

Concept-Development 11-2 Practice Page

The concept that additionally depends on location in a gravitational field is (mass) (weight). (Mass) (Weight) is a measure of the amount of matter in an object and only depends on the number and kind of atoms that compose it.

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Concept-Development 6-5 Practice Page

Concept-Development 34-1 Practice Page Electric Current 1. Water doesn't flow in the pipe when (a) both ends are at the same level. Another way of saying this is that water will not flow in the pipe when both ends have the same potential energy (PE). Similarly, charge will not flow in a conductor if both ends of the conductor

Concept-Development 9-1 Practice Page

Concept-Development 6-5 Practice Page Equilibrium on an Inclined Plane 1. The block is at rest on a horizontal surface. The normal support force n is equal and opposite to weight W . a. There is (friction) (no friction) because the block has no tendency to slide. 2. At rest on the incline, friction acts.

Concept-Development 5-1 Practice Page

Concept-Development 13-3 Practice Page Gravitational Interactions The equation for the law of universal gravitation is where F is the attractive force between masses m_1 and m_2 separated by distance d . G is the universal gravitational constant (and relates G to the masses and distance as the constant π

Concept-Development 25-1 Practice Page

Name Chapter 7: Momentum Period Date twice 1. A moving car has momentum. If it moves twice as fast, its momentum is as much. 2. Two cars, one twice as heavy as the other, move down a hill at the same speed.

Concept-Development 5-2 Practice Page

concept-development_9-3_simulated_gravity_and_frames_of_reference_se.pdf: File Size: 110 kb:

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Concept-Development 6-1 Practice Page

Concept-Development 9-2 Practice Page. 50 N During each bounce, some of the ball's mechanical energy is transformed into heat (and even sound), so the PE decreases with each bounce. 6 100 N 100 N 10 cm 6:1 ... Practice Page and. a.

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4 Vertical motion is affected only by gravity; horizontal motion does not affect vertical motion. CONCEPTUAL PHYSICS Chapter 5 Projectile Motion 19 Concept-Development 5-1 Practice Page

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